

## Installation and Connections

1. Turn off power to the Extron IN1508 and all other devices that will be connected to it.
2. If desired, attach the included ears and mount the scaler in a rack or furniture. For rack mounting, remove the self-adhesive rubber feet if they have been attached.
3. Connect source video devices to the scaler's video inputs:

**Inputs 1 and 2:** Connect two composite video sources to the BNC connectors, shown at right.

**Inputs 3 and 4:** Connect two S-video sources to the 4-pin mini DIN connectors, shown at right.

**Input 5:** Connect an interlaced (Y, B-Y, R-Y), progressive (Y, B-Y, R-Y), or HDTV (Y, B-Y, R-Y) component video source to the BNC connectors, shown at right.

**NOTE** Once power is applied, use the menu system to set the video type (interlaced, progressive, or HDTV) for input 5. See Operation and Menu System and the Input submenu at right.

**Inputs 6 and 7:** Connect two VGA – UXGA (RGB) video sources to the 15-pin HD connectors, shown at right.

**Input 8:** Connect a single link of DVI-D video to the DVI connector, shown above right.

4. Connect source audio devices to the scaler's audio inputs:

**Inputs 1 through 5:** Connect unbalanced stereo or mono audio sources to the left and right RCA connectors, shown at right.

**Inputs 6 through 8:** Connect unbalanced stereo or mono audio sources to the 3.5 mm mini stereo jacks, shown at right.

5. Connect an RGB or component video (Y, B-Y, R-Y) display or other output device to the scaler's 15-pin HD video output connector, shown at right.

6. Connect audio devices to the scaler's audio outputs:

**Output A:** Connect an audio device, such as an amplifier or powered speakers, to these left and right RCA connectors.

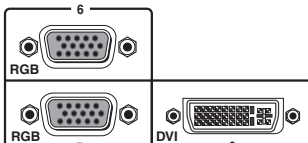
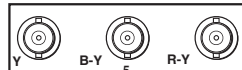
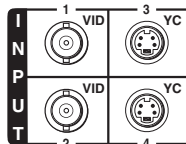
**Output B:** Connect an audio device, such as powered speakers, to this 3.5 mm, 5-pole captive screw connector for balanced or unbalanced audio output as shown at right.

**CAUTION** Incorrect audio connector wiring can damage the switcher. See Captive screw output audio connections, at right.

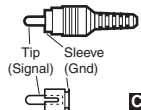
7. If desired, connect a PC or control system to the IN1508's RS-232 port. See RS-232 port, at right.

8. Plug the IN1508, the input devices, and the output devices into a grounded AC source, and turn on the input and output devices.

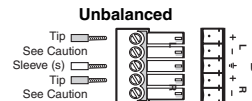
9. Use the front panel or IR remote control and the on-screen menus (see Operation and Menu System at right) or RS-232 programming to configure input 5, configure the output, and adjust the video and audio. Refer to the IN1508 User's Manual for RS-232 programming information.



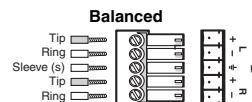
**RCA audio (Output A) connections**



**Captive screw (Output B) audio connections**



**CAUTION** Connect the sleeve to ground (GND). Connecting the sleeve to a negative terminal will damage the audio output circuits.



## IN1508 Scaling Presentation Switcher

### Operation

**Input buttons and LEDs** — Press the Input buttons on the front panel or IR remote control to select an input to scale and output. The LEDs indicate the selected input.

**Output Rate button and LEDs** — Press the Output Rate button to cycle through most of the available resolutions. The LEDs indicate the selected resolution. All selections automatically select the 60 Hz refresh rate.

**NOTE** Some rates cannot be selected using this button.

**PIP (picture-in-picture) button and LED** — Press the PIP On button on the front panel or IR remote control to toggle the PIP feature on and off. The LED lights when PIP mode is on.

**PIP Swap button** — Press the PIP Swap button on the front panel or IR remote control when the PIP feature is on to swap the main and PIP images.

**Picture Control buttons** — Press the desired Picture Control button on the front panel or IR remote control to change the centering, size, contrast, brightness, color, or tint. See the applicable Input submenu or Picture submenu selections at right for more details.

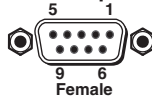
**Menu button** — Press the Menu button on the front panel or IR remote control to activate the on-screen display menu system (shown at right) or to back up one level from the currently selected menu or submenu.

**◀, ▲, ▼, and ▶ buttons** — Press the ◀, ▲, ▼, and ▶ buttons on the front panel or IR remote control to move the highlight bar over submenus or selections and to increase and decrease selected settings.

**Enter button** — Press the Enter button on the front panel or IR remote control to select a highlighted submenu or selection.

**NOTE** To return to normal operation (no on-screen display), let the scaler remain idle for 20 seconds until the selected screen times out, or press the Menu button repeatedly until the main menu is deselected.

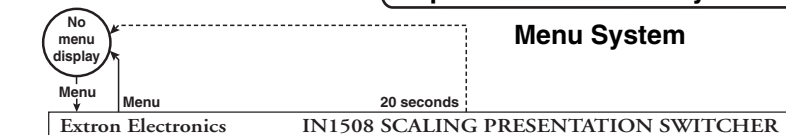
**RS-232 port**



| Pin | RS-232 | Function      |
|-----|--------|---------------|
| 1   | —      | Not used      |
| 2   | TX     | Transmit data |
| 3   | RX     | Receive data  |
| 4   | —      | Not used      |
| 5   | Gnd    | Signal ground |
| 6   | —      | Not used      |
| 7   | —      | Not used      |
| 8   | —      | Not used      |
| 9   | —      | Not used      |

## Operation and Menu System

### Menu System



- 1 INPUT
- 2 PICTURE
- 3 OUTPUT
- 4 AUDIO
- 5 ADVANCED

#### 1 Input submenu

- **Center** — Use the ▲ and ▼ buttons to select between the adjustment bars. Use the ◀ and ▶ buttons to move the image left and right or up and down on the screen. The range varies depending on the input signal applied and the output rate selected.
- **Size** — Use the ▲ and ▼ buttons to select between the adjustment bars. Use the ◀ and ▶ buttons to make the image taller or shorter. The range varies depending on the input signal applied and the output rate selected.
- **Zoom** — Use the ◀ and ▶ buttons to zoom in and zoom out of the scaled image.
- **Pan** — Use the ▲ and ▼ buttons to select between the adjustment bars. Use the ◀ and ▶ buttons to pan left and right or up and down.

- **Aspect** — Select the appropriate aspect ratio: 4:3 or 16:9. The default is 4:3.
- **Advanced** — Provides a submenu of advanced selection options: active pixels, active lines, phase, horizontal and vertical blanking, and total pixels. Refer to the *Optimizing the Video* section in the IN1508 User's Manual.
- **Input 5** — Select the correct video type: interlaced (NTSC/PAL [Y, B-Y, R-Y]), progressive (480p/576p [Y, B-Y, R-Y]), or HDTV (720p/1080i [Y, B-Y, R-Y]), for the input 5 component video.

#### 2 Picture submenu

- **Brightness** — Adjust the brightness of the selected input through a range of 0 through 128. The default setting is 64.
- **Contrast** — Adjust the contrast through a range of 0 to 128. The default setting is 45.
- **Color** — Adjust the contrast through a range of 0 to 128. The default setting is 64. **This adjustment is not available for the RGB and DVI inputs (inputs 6 through 8).**
- **Tint** — Adjust the contrast through a range of 0 to 128. The default setting is 64. **This adjustment is not available for the RGB and DVI inputs (inputs 6 through 8).**
- **Sharpness** — Adjust the contrast through a range of 0 to 128. The default setting is 64.

#### 3 Output submenu

- **Resolution** — Set the desired output resolution. The default setting is 1024 x 768.
- **Refresh Rate** — Set the desired output vertical refresh rate. The default setting is 60 Hz.
- **Sync Polarity** — Set the desired output horizontal and vertical sync polarity (H-/V-, H-/V+, H+/V-, or H+/V+). The default setting is H-/V-.
- **Signal Type** — Select the desired output signal format (RGBHV, RGBS, RGsB, or HDTV component video [Y, B-Y, R-Y]). The default setting is RGBHV.

#### 4 Audio submenu

- **Input Volume** — Adjust the volume of the selected input through a range of -53 dB through +9 dB. The default is 0 dB (no gain or attenuation).
- **Audio Delay** — Select On or Off. Audio delay compensates for the latency period inherent in deinterlacing NTSC, PAL, and SECAM video by delaying the audio output to match the video output. The default is off.

#### 5 Advanced submenu

- **Freeze** — Set freeze mode on or off. The default setting is off. Frozen images are also unfrozen when a new input is selected. On-screen displays are not affected by freeze mode.
- **Blank** — Set the blank mode (video and audio mute) On or Off. The default is Off. The output is also unmuted when a new input is selected. On-screen displays are not affected by blank mode.
- **Swap** — Swaps the main and PIP images. This menu option functions the same as the front panel Swap button.
- **PIP mode** — Set the size of the secondary picture (1/4 screen, 1/9 screen, 1/16 screen, 1/25 screen, side-by-side normal aspect ratio, and side-by-side full screen). The default setting is 1/4 screen.
- **Fade Switch** — Set the fade switching feature On or Off. The image fades to black when you select a new input when fade switching is on. The default setting is on.
- **Blue Mode** — Set the blue mode feature on or off. Blue mode is helpful for color adjustments. The default setting is off.
- **Reset** — Select Ok to return all settings to their default values. Select Cancel to exit without resetting.